



TIMELINEZ

VOLUME 4 ISSUES 9/10 SEPTEMBER/OCTOBER 1986 \$1.00

THE JOINT NEWSLETTER OF THE THREE TIMEX-SINCLAIR
USER GROUPS IN THE SAN FRANCISCO BAY AREA
** EBZUG PUG SVSTUG **

T/S NEWS

by George Mockridge

* T/S 1500 ALERT. Rex Lundgren, our repair expert, reports that he thinks he has found an assembly problem with the 1500. One of the ribbon cables running between the keyboard and circuit board is bent over too tightly & taped down to the board. Older 1500 cables are starting to crack. Rex suggests that you open the case and cut the tape to relieve tension on the cable.

* If anyone is having problems with the combination of a 1500/16K rampack/A&J Stringy Floppy, I have a N/L Exchange article that may be helpful.

* I also have an article from the July 1986 CATS N/L on a way to increase the number of formulas in UU-CALC from 100 to 128.

* SUM Newsletter has announced that they will merge into TIME DESIGNS. All SUM subscribers will receive TIME DESIGNS for their remaining issues.

* The May '86 issue of SUM was completely dedicated to the 1000/1500. It contained a lot of good material. Copies should still be available at Sunset.

* An Extended Basic program is now available for the 1000/1500. It is a machine code routine that adds 22 commands such as CIRCLE, DRAW, SCREEN\$, etc. \$19.95. Could a 1000 with a 64K Rampack and Extended Basic now be more powerful than the 2068?

* Timex still seems to be doing repair work for a flat fee. Call first. 1-501-372-1111

* We now have a complete index of all the TIMELINEZ articles available on two UU-FILE tapes. Copies can be found in your S/W Library. Great for fast searches of a particular topic. TIMELINEZ has published over 290 pages.

* John Warburton is off to England for the British Personal Computer Show. He intends to do some intensive research into new products for resale in the U.S.. We wish him the best of luck.

** ATTENTION **

HERE IS ANOTHER TWO-MONTH ISSUE OF TIMELINEZ. UNLESS WE GET MORE ARTICLES CONTRIBUTED, WE MAY BECOME A PERMANENT BI-MONTHLY NEWSLETTER!!!

DON'T FORGET! AS DESCRIBED IN THE JUNE ISSUE, WHOEVER GETS THE MOST POINTS IN MAKING CONTRIBUTIONS WILL WIN A NEW COMPUTER!!!

SVSTUG NEWS

by Bill Miller

At the 860826 GUTS/SV (SVSTUG?) meeting Bob Kuster demonstrated his new QL with the help of new meeting attendee Mark Wahl. Mark has a TS1000 with Flight Simulator I, a modification he made to the standard Flight Simulator to show a terrain map of the San Francisco Bay Area.

John Petersen of the Los Angeles based South Bay Computer Club Timex/Sinclair User's Group reports that we can get a TS2068 repaired for an initial deposit of \$30.00 and a TS2040 printer repaired for an initial deposit of \$20.00. For more information contacts:

TIMEX SERVICE CENTER, 1-501-372-1111
19 Adams Field
Little Rock, AR 72203

Thanks to Eric Bosch, a new meeting attendee, for undertaking to convert the ZX Spectrum computers loaned to us by A&J Microdrive to NTSC TV so that more readers can use them.

E X C L U S I V E

RLE GRAPHICS SHOW
Pages 236 and 239

SOME MORE LITTLE GOODIES FOR 2068

by George Mockridge EDITION 4

The following "little goodies" are a further collection of tips, aids, utilities, etc. that should prove helpful in 2068 programming. If you have a "little goodie" to share, please send it along and I will add it to the next edition. For a reprint of all previous "little goodies" send a long SASE to:

TIMELINEZ
P.O. BOX 1312
PACIFICA, CA 94044

```
1 REM FLASH CLS G THEN LN <>
9996 let prt=USR (5+PEEK 23635+2
56+PEEK 23636)
9997 IF prt>16383 THEN PRINT "Pr
inter off"
9998 IF prt<=16383 THEN PRINT "P
rinter on"
9999 STOP
**CHECKS TO SEE IF 2040 PRINTER
IS ON OR OFF. IN LINE 1, ENTER
CLS, FLASH,& REM IN THAT ORDER
```

```
PLOT (X1,Y1):DRAW(X2-X1),(Y2-Y1)
**DRAWS A STRAIGHT LINE BETWEEN
2 POINTS. IMITATES ABSOLUTE
LINE COMMAND ON OTHER SYSTEMS.
```

```
1 REM SCREENSAVE
5 DATA 33,0,64,17,168,222,1,0
,27,237,176,201
10 DATA 33,168,222,17,0,64,1,0
,27,237,176,201
20 FOR I=65300 TO 65323: READ
A: POKE I,A: NEXT I
30 STOP
**SAVE A SCREEN TO ADDRESS 57000
& INSTANTLY RECALL IT. RAND
USR 65300 TO UPLOAD & RAND USR
65312 TO RECALL.
```

```
POKE 26692,83
**PUTS LINE EDIT AT TOP OF
SCREEN. POKE 26692,75 RESETS.
```

```
PRINT 65536-USR 7962
**FREE MEMORY IN SPECTRUM MODE.
```

```
FOR N=16384 TO 22527: LET X=PEEK
N: POKE N,255-X: NEXT N
**INVERTS SCREEN DISPLAY.
```

```
RESTORE: FOR N=24500 TO 24505:
READ X: POKE N,X: NEXT N: DATA
243,6,192,195,5,10
RAND USR 24500
**COPY ALL 24 LINES TO PRINTER.
```

```
POKE 23624,X
**X=ANY ATTRIBUTE. ON NEXT KEY-
BOARD INPUT THE BORDER WILL
TAKE UP THE PAPER COLOR. TRY
A FLASHING ATTR. BEFORE A SAVE
```

```
POKE 23730 & 23731 WITH RAMTOP
**RESETS RAMTOP W/O DESTROYING
VARIABLES THAT ARE NOT DEFINED
IN THE PROGRAM.
```

```
1 POKE 23672,0: POKE 23673,0
9999 PRINT INT ((PEEK 23672+256*
PEEK 23673+.5)*100/60.1145+.5)/1
00
**GOTO 9999 TO FIND THE ELAPSED
TIME IN SECONDS THAT PROGRAM
HAS BEEN RUNNING.
```

```
POKE 23561,0
**STOPS KEY REPEAT. MAY BE USE-
FUL IN GAMES & UTILITIES.
```

```
POKE 23561,1
**USE TO DISABLE KEYBOARD AS
COPYRIGHT PROTECTION.
```

```
POKE 23689,X
**X=24 RESETS PRINT POSITION
TO TOP OF SCREEN. X=3-24
RESETS TO ANY LINE ON SCREEN.
```

```
LET A=1: IF (INT(N/2)*2-N)<>0
THEN LET A=-1
**DETERMINES IF N IS EVEN OR
ODD. A=(+1) IF EVEN, (-1) IF
ODD. NORMAL METHOD OF (-1)*N
WILL NOT WORK ON 2068. LET A
=COS (N*PI) ALSO WORKS/SLOWER.
```

```
1 CLEAR 56675
2 RESTORE : LET A=57786
3 READ N
4 IF N=-1 THEN GO TO 8
5 POKE A,N
6 LET A=A+1
7 GO TO 3
8 STOP
9 DATA 17,0,221,213,1,0,3,42,
54,92,36,126,167,31,182,18,35,19
,13,32,246,16,244,225,37,34,54,9
2,201,-1
**RUN AND RANDOMIZE USR 57786
FOR A DARKER CHARACTER IMAGE.
POKE 23607,60 FOR NORMAL IMAGE
```

```
1 CLS : LET FLAG=2: LET A=267
09 2 LET END=((PEEK 23627+256*PE
EK 23628)-1): GO SUB 8: FOR A=26
710 TO END-1
3 IF PEEK A=14 THEN LET A=A+4
: NEXT A
4 IF PEEK A>31 OR PEEK A=13 T
HEN PRINT CHR$(PEEK A): IF PEEK
A=13 THEN PRINT
5 LET FLAG=FLAG-1: IF PEEK A=
13 THEN GO SUB 8: LET FLAG=3: LE
T A=A+3: PRINT " ": NEXT A
6 NEXT A: STOP
7 REM LINE # SUB
8 IF A>END-1 THEN STOP
9 PRINT PEEK (A+2)+(PEEK (A+1
)*256): RETURN
**ADD TO PROGRAM FOR DOUBLE
SPACE LISTING BETWEEN PROGRAM
STATEMENTS. AIDS IN DEBUGGING.
```

MORE TIPS ON STRING-----S

FROM THE MAY-JUNE '86 KEYBOARDS
N/L OF SAFETY HARBOR, FLORIDA.

TO EXPAND ON THE ARTICLE BY JOHN KUHN IN THE JAN-FEB '86 ISSUE, YOU CAN STORE NUMBERS LARGER THEN 255 IN STRINGS BY USING MORE THAN ONE CHARACTER. THE NUMBER OF CHARACTERS NEEDED DEPENDS ON THE SIZE OF THE LARGEST NUMBER IN POWERS OF 256. FOR EXAMPLE, ONE CHARACTER CAN STORE UP TO 256 (256×1); TWO CHARACTERS CAN STORE UP TO 65536 (256×2); ETC. TO DEMONSTRATE, THE LINES BELOW LET YOU STORE A WHOLE NUMBER 'N' WHICH MAY HAVE A VALUE UP TO 65536 IN C\$ WHICH HAS A LENGTH OF 2.

```
10 DEF FN A$(n)=CHR$(n-INT (n/255)*255):
DEF FN B$(n)=CHR$(INT (. /255)+ FN A$(n))
20 REM THE ABOVE LINE STORES THE NUMBER IN A
CODE MADE OF CHARACTERS
30 DEF FN D(F$)=CODE F$(1)+255*CODE F$(2)
40 REM THE ABOVE LINE DECODES THE STRING
INTO A NUMBER
200 INPUT "ENTER A NUMBER ";n:LET C$=FN
B$(n):PRINT "YOU ENTERED ";n;"AND GOT ";FN
D(C$);"BACK!"
```

WHEN PRINTING FN B\$(n), YOU MAY GET AN ERROR MESSAGE IF ONE OF THE CHARACTERS IN THE STRING IS AN ATTRIBUTE.

YOU CAN USE THIS PRINCIPLE TO STORE LARGER NUMBERS USING MORE CHARACTERS. YOU SAVE A CONSIDERABLE AMOUNT OF MEMORY WITH THIS PROCESS.

PETER KOLETZKE
NEW YORK MEMBER

FROM THE JAN-FEB '86 SYNAPSE
N/L OF CENTRAL PENNSYLVANIA.

For those of you who have Tasword II and the Aerco Centronics Printer Interface: you must make changes to the Tasword software in order for it to work with the Aerco Interface. (Tasword was designed for the Tasman interface) The changes are: POKE 57999,127: POKE 58001,103: POKE 58008,127: POKE 58014,219: POKE 58015,127. Make a backup copy before you run the program in case you make a mistake typing in the information. [from CATS January 1986].

Make these changes to the Aerco parallel printdriver software in order to use the Aerco Parallel Interface in the Spectrum emulation mode: POKE 64441,201: POKE 64521,84: POKE 64522,31. [from SUM April 1985]

BY MARK FISHER FROM THE JULY '86
CATS N/L OF BLADENSBURG, MD.

New Product Announcements:

If you have been going around in circles trying to hook up that unknown printer, LOGICAL SOLUTIONS of Gaithersburg (301) 977-1510 may be able to help build a cable to hook it up. They have a library of 1500 pin-outs for various devices.

BY H.E. UEPPLER FROM THE SEPT.
'85 CATS N/L OF MARYLAND.

To find elapsed time in a program add the following lines to your program: 1 POKE 23672,0: POKE 23673,0 9999 PRINT INT((PEEK 23672 + 256 * PEEK 23673 + .5) * 100 / 60.1145 + .5) / 100 Start running your program at line 1 and to find elapsed time in seconds execute line 9999.

FROM THE JUNE '86 SLUG N/L
OF LOUISVILLE, KENTUCKY.

HACKING JET SET WILLY

POKE 54814,0
REMOVE STAR ON STAIRWAY

POKE 36545,0: POKE 56878,4
MAKES TREE EASY

POKE 37925,0
GO RIGHT TO BED

POKE 56350,0: POKE 56358,0
FIRST PLATFORM NOW HAS LANDING

POKE 50552,170: POKE 50553,170
BLOCKS HADES

POKE 38240,0
GETS RID OF MARTHA

POKE 37982: POKE 37994,0
WALK THROUGH MONSTERS

POKE 59900,0
DISABLES BUG IN ATTIC

POKE 36477,1
YOU CAN FALL WITHOUT DYING

POKE 37874,0
COLLECT ALL OBJECTS IN A ROOM AUTOMATICALLY

POKE 35123,0
WILL REMOVE ALL MOVING OBJECTS

POKE 36477,1
MILLY WALKS BACKWARDS

POKE 35899,0
INFINITE LIVES (FOR WILLY, NOT THIS LIST)

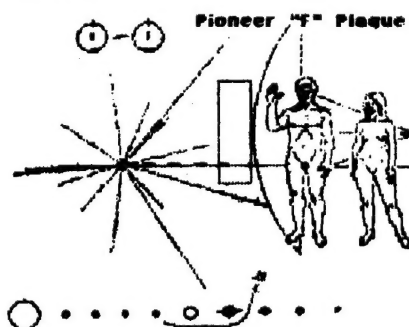
RLE Graphics Offer Art/Information

by Norm Lehfeldt

In the last couple of issues of "TIMELINEZ" we have featured articles on decoding and displaying Run-Length-Encoded Graphics on the 2068/Spectrum and the Sinclair QL. For those who may have wondered what all the shouting was about, we present the examples on these two pages.

To refresh your memory: Run Length Encoding is a system of converting a 256 X 192 pixel screen image into a string of ASCII characters so that it can be transmitted to and from and displayed by dis-similar computers. The file format is a standard header and footer with a continuous string of pairs of characters in between. In each pair of characters, the CODE of the first represents the number of black pixels to be set, and the CODE of the second, the number of white pixels to be set.

At first consideration, a 256 X 192 pixel image does not seem likely to provide much in the way of graphic subtlety.



RLE Graphic © John Lovell
Picture Support Forum

Not only is it possible for members of this forum to upload RLE files they have created on their own computers, it is also possible to submit pictures, photographs, etc., by mail for digitizing, RLE conversion and subsequent display in the forum.

Wayne Schmidt's exotic evocation of an oriental landscape was created with the Flexidraw light pen system on a Commodore 64. It is an example of the kind of subtle original work that can be reproduced in the RLE format.

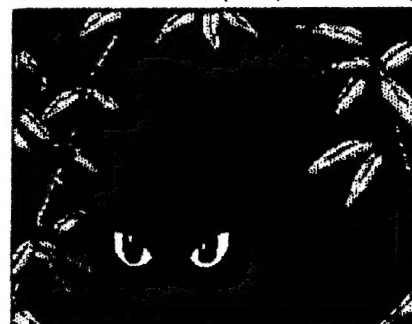
John Lovell's name crops up wherever you look for RLE Graphics on CompuServe because he does the RLE conversions for many artists and forums as well as in his own Sailing Forum (60 SAILING). He is particular noted for his RLE conversions of space-travel and related subjects, such as this depiction of the picture postcard from US to THEM placed aboard the Pioneer spacecraft.



RLE Graphic © Wayne Schmidt
Picture Support Forum

But in video terms, 256 lines is about the horizontal resolution limitation of 1/2-inch (and most 3/4-inch) video tape systems, and the practical vertical resolution limit of NTSC video is something less than the number of displayed lines (485). Of course, in the RLE format there is no Z-axis modulation -- that is, brightness variation -- so the format does contain less information than an analogue video display with the same number of pixels. All that aside, as you can see from the examples here, suprisingly artistic and subtle effects are possible in the format.

All of the RLE Graphics presented here are drawn from various sections of CompuServe. Four of them are from the Picture Support Forum (Typing '60 PICS' will get you there on CompuServe), a relatively new forum dedicated to the display and discussion of RLE graphics. A current lively discussion going on there explores the possibility of higher-resolution on-line RLE graphics in the future and possible schemes for standardization so that they may be viewed by owners of disparate computers.

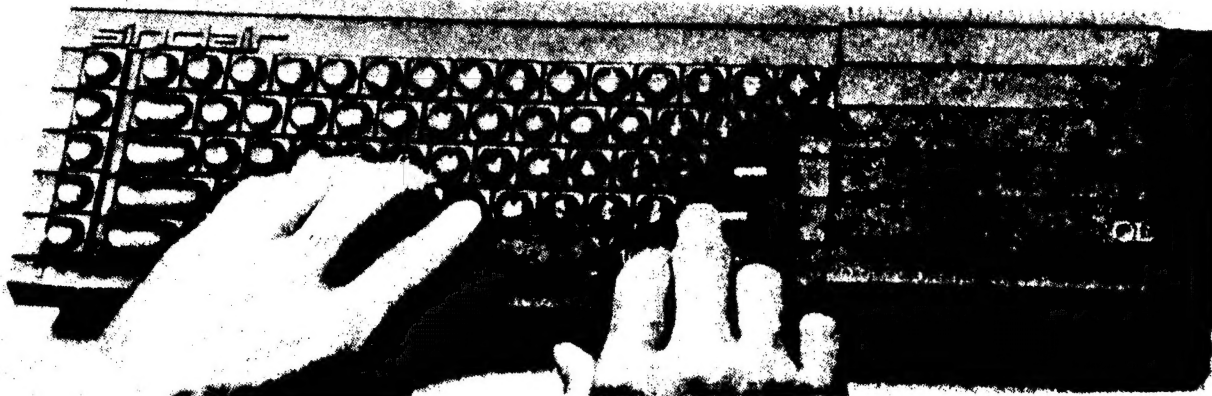


RLE Graphic © Doug Quinn
Picture Support Forum

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P L U S
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- ANNOUNCING -

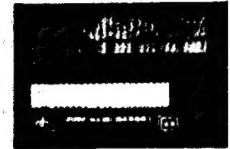
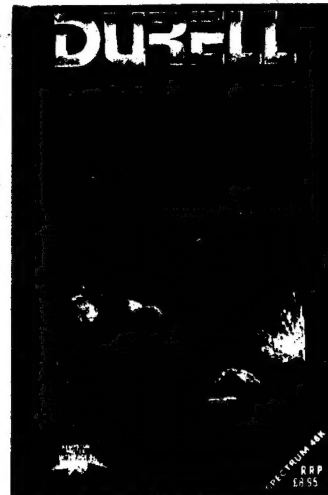
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CATALOG #1098 \$15.95

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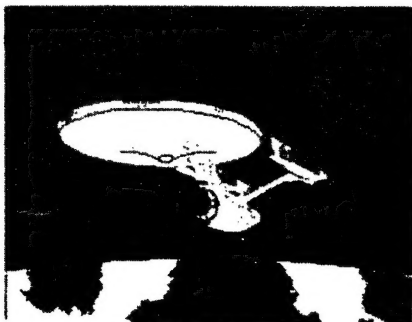
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CATALOG #1139 \$19.95

PLEASE INCLUDE \$3.00 - SHIPPING & HANDLING VISA/MC ACCEPTED



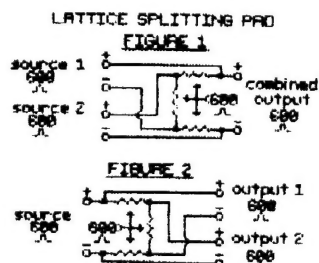
RLE Graphic © Rick Gregory
Picture Support Forum

This is the only example here of a digitized photograph, but there are much better examples to be seen on the system. Citizens Band Interest Group (60 CB16), for example, offers photos of some of the folks chatting away in the CB simulator.

And Hollywood Hotline (tm) (60 HHL) offers high-quality, RLE-encoded photos of entertainment celebrities.

Picture Support SYSOP Larry Wood is also up to something new in his Discover Orlando Forum (60 ORL), where he is setting up a series of electronic travel brochures ('Florida's Seven Vacation Regions', RLE-ized by the ubiquitous JL gets its first public display here!). Ultimately it will feature road, transportation and attraction maps, as well as other images designed to aid folks planning a Sunshine State vacation.

In the Broadcast Professional Forum (60 BPFORUM), you can read a description of the 'Lattice Splitting Pad', an audio signal combining/splitting circuit of use in Radio/TV/Recording studios. Then, armed with some resistors from your junk box and this RLE circuit diagram, you can cobble it together and give it a try! John Hoffman, BP Forum SYSOP, thinks this is the first use of RLE graphics to illustrate a technical article.



For a complete description of the Lattice Splitting Pad see the TEXT File LATPAD.DOC

RLE Graphic © N.Y.M.S., Inc.
Broadcast Professional Forum

The reason for the transfer to the 2068 is that the printer driver for that machine creates print-outs in the suitable-for-publication sizes you see here. So far, the only way to view RLE pictures on T/S machines is by the use of off-line, BASIC decoding/display programs. After the pictures are decoded they may of course be saved in screen format. But the decoding process itself is excruciatingly slow. Users of more popular machines have terminal programs available which allow high-speed, on-line viewing of the images.

Jack Dohaney is working on a machine-code RLE decoder for the 2068, which will be welcome. But we also need terminal programs that incorporate on-line viewing utilities for both machines.

Pictures on the 2068/Spectrum screen can be RLE encoded with a program created by John Ryan.

RLE graphics on the Sinclair and Timex computers offer some challenges to programmers and artists. Any takers?

RLE Graphics © CompuServe, Inc. and Co-operating Artists and Forums.
Reproduced by Permission.

Images from other media -- popular comic strips, TV shows, movies and the like -- are a staple of the display areas of Pictures Support. Rick Gregory's representation of the Enterprise in planetary orbit is an example.

A relatively new feature of Pictures Support Forum is the Art Gallery section, where the works of a particular artist are featured for a month. The striking 'Eyes' is by Doug Quinn who was the featured artist for August. He has also been named a SYSOP of the forum.

But RLE graphics is not all pretty pictures -- utilitarian purposes are beginning to be served as well.

Consider the FBI poster from the Ten-Most-Wanted section (60 FBI). Have you seen this man??



Michael F. Hammond
Age: 40
Born: Jan 3, 1945
Residing: CA
Height: 5'6"
Weight: 145-150 lbs
Build: Medium
Eyes: Blue
Hair: White
Tattoos: Scar on left side of stomach; tattoos cross on left arm; "BOB" on right arm.
Key (CB) for name

FBI Ten-Most-Wanted

CompuServe gets the bulk of the credit here because of the sheer volume of RLE graphic activity on the system. But RLE pictures are beginning to crop up on other commercial systems and on private BBS's as well. So far, Run-Length-Encoding of graphics is the best way to exchange visual information between dis-similar computers.

The flexibility the scheme provides is illustrated by the way the graphics were prepared for this article.

The RLE files were downloaded at 1200 BAUD to the Sinclair QL -- this saves a little connect time and money. Then the files were transferred to the T/S 2068, decoded and SAVED as 2068 SCREEN's. They can now be quickly reLOADED and printed by the Olivetti PR2300 ink-jet printer.



RLE Graphic © Larry Wood
Discover Orlando Forum

***** EBZUG NEWS by John Ezike *****

It has been a while since this column was featured in recent issues of TimelineZ.

As you must have noticed in the Computer Calendar section, we no longer have a President. The last few meetings have been held in an informal atmosphere with much success and it has been due to the efforts and participation of YOU, the members of EBZUG.

In this article I will attempt to mention as many of the events which have taken place recently, with no particular attention being paid to the actual chronological order. If I omit any individual or individuals, it is not done intentionally and please bring it to my attention at the next EBZUG meeting.

The following individuals have donated items to the club. Kevin Zimmerman donated a copy of SAMS Photofacts sheets for the TS1000/ZX81 computers. Tom Fattarusso gave the club a tape and documentation of Robert Fingerle's excellent word processor Textwriter 1000. Courtney DuBois donated various software items to the library including Kwikplot, Quicksort, The Starter and XFORN. The first two pieces were written by Courtney and I hope to get a description and/or documentation for those programs from him in the near future.

Also presented to the Text Library by Courtney, were the following books. Mastering Your Timex Sinclair PC by Tim Hartnell and Dilwyn Jones, 49 Explosive Games for the ZX81 by Tim Hartnell, The Essential Guide To Timex/Sinclair Home Computers by Morse, Adamson, Anrep and Hancock. Additional titles include Understanding Digital Electronics (Radio Shack) and Z80 Instruction Handbook by Nat Wadsworth. Items donated to the Text Library by Joe Faber were copies of Interface, Sinclair User and SYNC magazines.

Some members demonstrated their computer systems at recent meetings. Russ English demonstrated his TS2068 system which included a sleek looking disk drive cabinet, housing two 3 1/2 inch drives and one 3 inch drive and an Aerco disk drive interface. For a display he had a Taxan RGB monitor which together looked and worked impressively. Russ is currently working on utilizing 128k RAM on his TS2068 using bank switching. Wayne Seibel brought in his TS800 Model 4P and demonstrated a Speech Synthesis unit which he built. He typed in and entered the message 'hello, EBZUG members' and the unit played back the message quite audibly. Wayne is working on improvements and hopefully we shall see the finished product at an upcoming meeting. For the TS1000 enthusiasts Dale Ahlstrom demonstrated his TS1000 system consisting of an Aerco disk drive interface board, a pair of 5 1/4 drives and the jewel in the crown, the John L. Oliver TM39918A based

color video boards. Although a monochrome monitor was used the features of the boards were adequately demonstrated. Fred Templeton wrote a word processor for the TS2068 that is 100% machine code and includes features such as proportional spacing, automatic word wrap and margin-setting in inches. He has demonstrated it on many occasions. As you can see, T/S and non-T/S computers are welcome at EBZUG meetings. Our thanks to Darwin Thompson for demonstrating his Sinclair QL and to Bill Miller for regularly bringing his Spectrum, Kirk Adams and David Gray for bringing their TS2068's and all the other members who bring their computers to club meetings. Are the TS1000 users going to be left out? Let's see some more TS1000/ZX81 systems at future meetings.

As you can see from the past demonstrations, all computers are welcome at EBZUG. Next issue I will have news and information from other user groups that are TS1000/ZX81 related.

***** FOR SALE *****

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1 EA " (MEMOTECH)
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COMPUTER CALENDAR

S E P T E M B E R

- 21 Peninsula User Group 1:00
Peninsula Hospital
1783 El Camino Real
Burlingame
- 25 East Bay User Group 7:30
West Branch Library
1125 University Avenue
Berkeley
- 25 4th Personal Computer Faire
to Brooks Hall & Civic Auditorium
27 San Francisco
- 30 Silicon Valley User Group 7:00
Cupertino Library
10400 Torre Avenue
Cupertino

O C T O B E R

- 19 Peninsula User Group 1:00
- 23 East Bay User Group 7:30
- 29 Silicon Valley User Group 7:00

N O V E M B E R

- 16 Peninsula User Group 1:00
- 20 East Bay User Group 7:30
- 26 Silicon Valley User Group 7:00

THE COMPUTER SHOW, Tuesdays, 7 pm
TV Station KTSF, Channel 26

COMPUTER CHRONICLES, Fridays, 9 pm
TV Station KCSM, Channel 60

E B Z U G EAST BAY Z80 USER GROUP
===== 654 40th STREET
RICHMOND, CALIFORNIA 94805
(415) 234-3310

PRESIDENT: (VACANT)

MEETINGS: FOURTH THURSDAY OF EACH MONTH, 7:30 P.M.
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DALY CITY, CALIFORNIA 94015
(415) 878-1773

PRESIDENT: GEORGE HOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.
PENINSULA HOSPITAL
1783 EL CAMINO REAL, BURLINGAME

MAIL DUES TO "PAT MORRISSEY", 2000 CRYSTAL SPRINGS ROAD,
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S V S T U G SILICON VALLEY SINCLAIR TECHNOLOGY USER GROUP
===== 6675 CLIFFORD DRIVE
CUPERTINO, CALIFORNIA 95014
(408) 253-3175

PRESIDENT: RITA CARR, (408) 738-2888, X-4579

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THIS TIMELINEZ NEWSLETTER IS A JOINT PUBLICATION OF THE THREE
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PUG NEWS
 by Norm Lehfeldt

The PUG prisoner project under the direction of Rita Toth continues. At our August 17th meeting Nate Schulman contributed a T/S 1000 and an uncased full-sized keyboard. Both items have been put in working order by our hardware whiz, Rex Lundgren. We can ship them off as soon as we get an enclosure for the keyboard. Search your junk box and give Rita a call if you come up with something suitable.

Bob Orrfelt continues his dissection of and corrections to the 2068 ROM. He is also adding a batch of new commands and utilities. Bob says several months more of work on the new ROM is required. We wait with baited breath.

Full-color screen dumps from the QL to the bargain-priced Canon color ink-jet printer were demonstrated (See review elsewhere in this issue). Dave Franson's color dump program for the 2068 will be shown at next PUG meeting (Sept. 21).

Quantum Levels, a new QL oriented, quarterly publication from Tom Woods is now available -- \$18.95/yr to Thomas B. Woods Publishing, P.O. Box 64, Jefferson, NH 03583.

Jeff Moore takes over from Tom Bent as editor of Syncware News. Editorial offices are thus moved to 602 S. Mill St., Louisville, OH 44641.

Sir Clive still defends the Microdrives but says the QL should have been a Z80 machine! Read all about it in an interview with the wizard himself -- 'Why I Sold Out'-- in the August issue of 'Sinclair User.'

Next PUG meeting 1:00 PM, Sept. 21, Penininsula Hospital in Burlingame. See you there!

FOR SALE

‡ Timex/Sinclair 2068 computer w/Spec emulation. Lots of books & software (games, Tasword, NScript, etc.)	\$140
‡ Wafadrive + 10 wafas & utility wafer	100
‡ Spectrum interface bus	20
‡ Tasman printer interface	20
‡ Aerco printer interface new	30
‡ Multiface one-backup/copy any spec. prog. to disk, wafer, tape	35
‡ Alphacom 32 printer (Timex)	25
‡ +80 Finance Manager Wafer	12

Individual or ALL for \$300 (make offer)
 Call Dave at 359-4830 after 4:30

I WISH TO BUY AN ACCOUNTING SOFTWARE PROGRAM FOR MY 2068 BUT WOULD LIKE TO TRY IT OUT FIRST.

I'VE HEARD OF TWO: SOFTSYNC'S PERSONAL ACCOUNTANT AND ACZ GENERAL LEDGER.

IF YOU HAVE EITHER OF THESE (OR ANY OTHER), PLEASE CONTACT:

RITA TOTH, SAN FRANCISCO
 (415) 928-4367.

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